VHF/UHF DUAL BAND FM TRANSCEIVER

IC-E7

Compact body & Stylish design

- **Ultra compact, lightweight body —47×81×28 mm*, 160g****

  * Projections are not included. ** Including BP-243 and antenna

- **20 hours of operating time* with slim Lithium-Ion battery pack**

  * Tx:Rx:Stand-by=5:5:90 with power save on

- **Wideband receiver* allows you to listen to FM, TV (audio) and others**

  * 0.495–999.990MHz, receiver range differs depending on version

- **Minimum number of buttons for simple operation**

VHF 1.5W
UHF 1.0W



- **VHF/UHF dual bander with 1.5W/1.0W output power**

  (One band at a time)

- **CTCSS and DTCS tone for repeater access and quiet stand-by**

- **1000 alphanumeric memory channels with flexible memory bank system**

- **Supplied rapid charger, BC-164, charges the battery pack in 3 hours (approx.)**







Icom Inc.



Other features

- Auto memory write scan stores detected busy channels in the auto memory write bank. You can transfer them to the regular memory channels.
- Bank link scan allows you to detect busy channels from the selected banks.
- Pocket beep alerts the operator with a beep sound when the transceiver receives a signal containing a preset tone.
- Large backlit LCD with backlit buttons for night time operation
- Priority watch function checks for selected memory channel(s) every 5 seconds, while operating on VFO mode.

SPECIFICATIONS

GENERAL

- Frequency coverage (Unit: MHz) :

Version	Tx range	Rx range
EURO	144–146,430–440	0.495–999.990*1
UK	144–146,430–440	0.495–999.990*1
Italy	144–146,430–434,435–438	144–146,430–434,435–438
France	144–146,430–440	0.495–29.995, 50.2–51.2, 76–135.995, 144–146, 430–440*1

*1 Guaranteed range, 144–146, 430–440MHz

- Mode : FM, AM*, WFM* *RX only
- No. of memory channels : 1252 (1000 regular, 2 call, 50 scan edges and 200 auto memory write)
- Antenna impedance : 50Ω (SMA)
- Power supply requirement : 3.7V DC (With specified battery pack)
- Usable temperature range : –10°C to +60°C
- Frequency stability : ±6ppm (–10°C to +60°C)
- Tuning step increments : 5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, 200kHz
- Current drain (at 3.7V DC) :
  - Transmit High: Less than 1.5A
  - Low (VHF/UHF): 0.4A/0.5A (approx.)
  - Receive Max. audio: Less than 150mA
  - Stand-by: 80mA (approx.)
- Dimensions (W×H×D) : 47×81×28mm (Projections are not included)
- Weight (approx.) : 160g (with BP-243 and ANT)
- Ext. MIC/SP connector : 4-conductor 3.5 (d) mm /2kΩ/8Ω

TRANSMITTER

- Output power VHF : High 1.5W, Low 0.1W (approx.)
  UHF : High 1.0W, Low 0.1W (approx.)
- Max. frequency deviation : ±5.0kHz
- Spurious emissions : Less than –60dB

RECEIVER

- Intermediate frequencies : 46.35MHz, 450kHz (AM/FM) 14.85MHz, 450kHz (WFM)
- Sensitivity (at 12dB SINAD) : Less than 0.18μV (144/430MHz ham band only)
- Squelch sensitivity : Less than 0.18μV (at threshold; 144/430MHz ham band only)
- Selectivity AM/FM : More than 12kHz at 6dB, Less than 30kHz at 60dB
  WFM : More than 150kHz at 10dB, Less than 700kHz at 20dB
- Spurious rejection ratio : More than 40dB
- Audio output (at 3.7V DC) : More than 50mW at 10% distortion with an 8Ω load

- Sensitivity (Wideband receiver general):

FM (at 12dB SINAD)	
30–89.995MHz	Less than 0.45μV
90–143.995MHz	Less than 0.2μV
144–147.995MHz	Less than 0.18μV
148–179.995MHz	Less than 0.2μV
350–470MHz	0.18μV typ.
600–939.990MHz	Less than 1.4μV
940–999.990MHz	Less than 2.5μV
WFM (at 12dB SINAD)	
76–107.995MHz	Less than 1.8μV
600–799.990MHz	Less than 2.5μV
AM (at 10dB S/N)	
0.495–4.995MHz	Less than 2.2μV
5.00–29.995MHz	Less than 1.4μV
118–136.995MHz	Less than 1.4μV

Supplied accessories: (* Depending on version)
- Battery pack, BP-243
- Battery charger, BC-164
- AC adapter, BC-145LE/LUK*
- Antenna
- Hand strap

All stated specifications are subject to change without notice or obligation.

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

BP-243 BATTERY PACK



3.7V/1800mA Li-Ion battery pack. Same as supplied.

BC-164 RAPID BATTERY CHARGER +**BC-145LE/LUK** AC ADAPTER



Charges the BP-243 in 3 hours (approx). L-shaped plug AC adapter is supplied with the charger, depending on version.

CP-21LR CIGARETTE LIGHTER CABLE WITH NOISE FILTER



For use of the BC-164 in a vehicle. (12–16V DC required.)

LC-161 CARRYING CASE



Allows you to put the transceiver on your belt.

AD-92SMA ANTENNA CONNECTOR ADAPTOR



Allows connection of BNC type antenna.

OPC-474 CLONING CABLE



For transceiver to transceiver cloning.

HM-153P EARPHONE MICROPHONE



1 plug type lapel clip microphone with earphone.

HM-131 SPEAKER MICROPHONE



Compact and durable body. Equipped with an earphone jack. OPC-782 is required.

HM-128 EARPHONE MICROPHONE



Light type lapel clip microphone with earphone. OPC-782 is required.

SP-13 EARPHONE



Provides clear audio in noisy environments. OPC-782 is required.

OPC-782 PLUG ADAPTOR CABLE



MIC/SP plug adaptor. For use with HM-131, HM-128 and SP-13.

- **CS-P7** CLONING SOFTWARE + **OPC-478, OPC-478U** CLONING CABLES

For quick and easy programming of memory channels from a PC. (Microsoft® Windows® 98/SE/Me/2000/XP).
OPC-478: RS-232C cable,
OPC-478U : USB cable

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